



# KARO ECHO Newsletter

## KARO ECHO

Serving the communities  
of El Cerrito and  
Kensington, California

**Web:** [www.karoecho.net](http://www.karoecho.net)

**Facebook:**  
[KARO ECHO facebook](#)

**Email:** [info@karoecho.net](mailto:info@karoecho.net)

## Important Frequencies

KE Primary: 146.415 MHz  
Weekly Net, Thurs. 1900

KE Secondary: 146.475 MHz

4Cs Repeater: 145.110 MHz  
(TX down 600 with PL 82.5)

## Monthly Meetings

In-person meetings

2<sup>nd</sup> Monday of each month  
7:00 pm

**(online via Zoom for now)**

Arlington Park Clubhouse,  
1120 Arlington Blvd,  
El Cerrito, CA

The next meetings are:

Oct 11<sup>th</sup>, 2021

Nov 8<sup>th</sup>, 2021

Meeting minutes are on  
the website in the past  
events page.

## What's New

### KARO ECHO Monthly Meeting, Oct. 11<sup>th</sup>, 1900 — **ONLINE VIA ZOOM**

The monthly KARO ECHO meeting will be held using the Zoom online meeting app, at the usual time, 1900, Monday Oct. 11th. Find the link to join in a KARO ECHO email from Howdy KE6BEE. The training portion of the meeting will focus preparation for the Fall SET and a report/discussion on recent digital nets. [Full agenda link](#)

### Save the Date for the KARO ECHO SET — Nov 13<sup>th</sup>

The fall SET will be held Saturday Nov. 13th from 10:00-12:00. Please hold this date to participate if you can. Emphasis on emergency power, deployment to hubs and mobile operation. Potentially incorporate What 3 Words, digital messaging.

### Personal Emergency Preparedness Training — Oct 20<sup>th</sup>, 1900

Richmond OES and Richmond CERT invite you to join a presentation regarding local risks and hazards, personal/family disaster planning and a disaster supplies kits. October 20, from 7:00 p.m. to 8:30 p.m. [Use this link to register](#), and you will receive an email with a Zoom link before the meeting.

### Soliciting Input regarding potential changes to the KARO ECHO Constitution

A few potential items have been identified for minor updates to the KARO ECHO constitution. Please review the [current constitution](#) (adopted 3 years ago) and provide any input you have on the topic. A person or committee to draft changes may be chosen at the Oct.11 meeting.

### Weekly Digital Skills/Practice Nets, Mondays, 1900

We have had a great start to a new net practicing digital messaging over ham radio. Ten KARO ECHO operators have successfully sent and received digital messages in just three nets, so far. Weekly nets are held on Mondays at 1900 (except the second Monday when it overlaps with the membership meeting). Initially, we have been using [FLdigi software](#), because it supports modes that allowing digital communication without specialized digital interfaces for the radio. Here is a [link to a getting started document](#). Our digital practice sessions may evolve over time.

**LOCAL NETS****KARO ECHO Simplex Nets**

146.415 MHz (primary)

146.475 (secondary)

**Voice net:** Thursday, after the West Contra Costa RACES Net, but not before 1900 hours local time.

**Digital net:** Monday, 1900

**West Contra County ACS/RACES Net**

145.110 MHz repeater  
(TX down 600 with PL 82.5)  
Thursday: 1845 local time

**Contra Costa County HF EmComm/RACES Net**

3893 KHz. Thursday, 1835

**American Red Cross of the Bay Area (ARCBA)**

WW6BAY Repeater  
443.975 MHz  
TX +5 MHz, PL 100 Hz  
Wednesday: 2000 local time

**BOARD OFFICERS**

President: Hal KK6NDF  
Vice-Pres. and Emer. Coordin.  
Howdy KE6BEE  
Treasurer: Larry KK6GIO  
Secretary: Tom KN6BUY  
Outreach/PR Manager:  
Blake KN6CMP  
Webmaestro: Rob K6RJM  
Board members at large:  
Don, NI6A  
Annette, KJ6SWK

**What's New *(continued)*****Neighborhood nets and Communication Hub Activities**

The first Wednesday of the month has a lot of radio activity in the area.

**West county EmComm net out of Richmond at 11 am** (starts after the Richmond siren test) FRS/GRMS simplex (on Ch.19, secondary Ch. 17), followed by a ham net on the [WA6KQB 440 repeater](#) with WA6DUR repeater as secondary (see WA6DUR freq. information below)

**East Richmond Heights**, ham operators check-in at 1845 on Walt's WA6DUR repeater 442.150 +5 offset and PL tone 107.2Hz.

**EC4 (central El Cerrito Hills)** CERT Net, Ch. 2 (462.5875), at 1845

**EC9 (north El Cerrito Hills)** CERT Net, Ch. 15 simplex (462.550), at 1900

**East Richmond Heights, Ready-2-React Net**, Ch. 7 (462.7125), at 1930

**EC8 (north El Cerrito)** CERT net, Ch.4 (462.6375), at 2000

**Ken6 (SW Kensington)** CERT net, on first Tuesdays, Ch. 6 (462.6875) at 1900

**Richmond simulated EOC net**, first Thursdays at 1030, on three simplex frequencies in this order: 147.450, 441.000, 223.400

**Albany Radio Net**, Wed. (weekly) 1900 on Ch.19 [Albany Radio groups.io](#)

[Coordination of neighborhood FRS/GMRS frequencies can be found here.](#)

**Welcome New Hams**

New El Cerrito licenses issued: none in past month

New Kensington licenses issued: none in past month

**Action - Contribute to this Newsletter**

Content for this newsletter is always welcome. We are seeking submissions for a new free classified section for selling/trading radio equipment/services. Anyone with events or other content suggestions please send them to the newsletter editor Howdy [ke6bee@arrl.net](mailto:ke6bee@arrl.net)

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## What's New *(continued)*

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### ARRL Learning Network Webinars

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

ARRL members may register for upcoming presentations and view previously recorded Learning Network webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

### Zonehaven Interactive Map

Lookup your [Zonehaven evacuation zone here by on this interactive map](#). If you have internet access at the time this map is layers with information about fire events, weather, evacuation orders and other information, but as a matter of preparedness, it is useful to know your zone number so that you will recognize your turn to evacuate when instructions are announced by zone numbers.

### Treasurer's Report

#### Treasurer's Report September 2021

Larry Vanselow, KK6GIO, Treasurer

APRIL GENERAL FUND1 Beginning Balance ..... \$1,239.13

Income: December dues payments: ..... AJ6RZ.

Total General Income: ..... \$20.00

Donations.....\$10.00

Total General Disbursements ..... \$0.00

Ending Balance ..... \$1,369.17

(Portion as petty cash..... \$0.00)

Thank you to all of the donations and membership payments that support our club.

## Activities

### Weekly Net Control Rotation

Thanks go out to the volunteer stations who have been taking turns as Net Control Stations (NCS) each Thursday. This rotation has been working very well and everyone has been doing a great job. The regular NCS roster has 9 operators. We have one opening as an opportunity for others to fill in. Please volunteer to give it a try. [Download the new Net Script for NCS operators.](#)

Below are the current scheduled dates for each operator. The [KARO ECHO google calendar](#) also has these assignments and can be found at the bottom of the events page. Add to your electronic calendar By pressing the "+GoogleCalendar" button in the lower right.

Net control is a skill that many operators should have and regularly practice. Please contact Howdy [ke6bee@arrl.net](mailto:ke6bee@arrl.net) if you are interested in taking a net control assignment.

Callsign	Name	Assigned Dates (skipped: 11/26/2020, 11/25/2021, 12/24/2020, 12/31/2020)						
KE6BEE	Howdy Goudey	9/17/2020	11/19/2020	2/11/2021	4/15/2021	6/17/2021	8/19/2021	10/21/2021
KK6NDF	Hal Graboske	9/24/2020	12/3/2020	2/18/2021	4/22/2021	6/24/2021	8/26/2021	10/28/2021
KM6HBO	Jamuel Starkey	10/1/2020	12/10/2020	2/25/2021	4/29/2021	7/1/2021	9/2/2021	11/4/2021
KN6BUY	Tom Fattaruso	10/8/2020	12/17/2020	3/4/2021	5/6/2021	7/8/2021	9/9/2021	11/11/2021
K6RJM	Rob McNicholas	10/15/202	1/7/2021	3/11/2021	5/13/2021	7/15/2021	9/16/2021	11/18/2021
KE6HCE	Armando Picciotto	10/22/202	1/14/2021	3/18/2021	5/20/2021	7/22/2021	9/23/2021	12/2/2021
NI6A	Don Simon	10/29/202	1/21/2021	3/25/2021	5/27/2021	7/29/2021	9/30/2021	12/9/2021
KN6CMR	Susan Yeaman	11/5/2020	1/28/2021	4/1/2021	6/3/2021	8/5/2021	10/7/2021	12/16/2021
KK6ZPM	Karen Fenton-Leong	11/12/202	2/4/2021	4/8/2021	6/10/2021	8/12/2021	10/14/2021	12/23/2021

Thanks to Tom KN6BUY for taking a regular turn in the net control rotation.

### Thursday Net Training Exercises

Following the net check-ins every Thursday at 1900 on 146.415, KARO ECHO usually runs a training exercise to learn and practice skills that are important for successful disaster communications.

[A list of potential training exercises](#) is posted and maintained on the training page of the website.

[A log of our check-in counts can be found here.](#) Howdy KE6BEE typically updates this document in real time during the net, so you can check it against your log during or after the net.

We averaged 21 check-ins/week in 2020 with a high of 28. So far in 2021, we are averaging 19/week with a high of 25. Thanks for your participation. Keep it up!

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## About KARO ECHO

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KARO ECHO is the name of the Kensington Amateur Radio Operators and the El Cerrito Ham Operators mutual benefit association, an all-volunteer non-profit group of amateur radio operators providing auxiliary communications for the cities of Kensington and El Cerrito in the event of a disaster. KARO ECHO works with CERT (Community Emergency Response Teams) in Kensington and El Cerrito, but is not an official part of the CERT program.

Monthly in-person meetings of KARO ECHO are on the 2nd Monday of each month at 7:00 pm, online using Zoom. The next meetings are:

- ♦ Oct. 11<sup>th</sup>, 2021
- ♦ Nov. 8<sup>th</sup>, 2021

Yearly membership dues are \$30/year for individuals, \$40/year for a family membership. Payments can be given to the Treasurer at monthly meetings or mailed to the address below. Participation is welcome independent of paid membership, but only licensed amateur radio operators who are dues paying KARO ECHO members will be allowed to vote on KARO ECHO business. Dues cover our 510c3 registration, post office box, web page, station operating manuals and more. Your input on useful expenditures to aid emergency communications is welcome.

Mail to: KARO ECHO, PO Box 2025, 6324 Fairmont Ave, El Cerrito, CA 94530-3651

Please see our website for more information: [www.karoecho.net](http://www.karoecho.net)

You can contact the KARO ECHO board by email: [info@karoecho.net](mailto:info@karoecho.net)

### KARO ECHO Facebook

The [KARO ECHO Group on Facebook](https://www.facebook.com/groups/1451216838315743/) has a lot of good information, more than is contained on our website. There is a whole wide world of emergency communications information at <https://www.facebook.com/groups/1451216838315743/> Check it out and be inspired of what we can do to help disaster victims in our community.

### Weekly Training Net

The Karo-Echo Weekly Training Net meets every Thursday evening immediately after the West Co Co County RACES/ACS Net; but not before 1900 on 146.415 MHz Simplex. Our secondary frequency is 146.475 MHz simplex. Details at <https://www.karoecho.net/events>

### Newsletter Content Wanted

Any input on content you'd like to propose for inclusion in the KARO ECHO newsletter can be sent to Howdy [ke6bee@arrl.net](mailto:ke6bee@arrl.net) We welcome all ideas for content including announcements, events, etc.

### KARO ECHO Field Day Video

Thanks to Frans KJ6IUV for taking video and editing a nice [movie of Field Day activities](#).

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## Outreach, Education and Licensing

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### Write-up of message handling exercise

There is a [writeup of a recent messaging exercise](#) on the KARO ECHO website that covers prowords and fills and other guidance for operators when passing written messages.

### Local and Online Ham License Classes and Exams

COVID restrictions have changed ham license classes and exams. Many are now offered in distanced/outdoor venues or entirely online. See a [list of opportunities on the KARO ECHO website](#)

### Recruiting Additional Communications Coordinators

Read the [Neighborhood District Radio Communications Coordinator \(DRCC\) plan](#) written by Don NI6A.

### Training for Beginning Operators

Thanks to Jay KJ6WSS, Edward KM6UBY and Karen KK6ZPM for their May 23rd introductory radio class, with emphasis on the GMRS radio BTECH-V1. [A recording of the class and other resources are available here.](#)

### Net Control Operator Training

Diane KK6RED, David KJ6AAT and Howdy KE6BEE taught an Apr 4th net control class for C8 the county wide CERT organization. There was a great reception to this class across the county and we inspired many groups to expand the scope of their net trainings. [The class recording is available here.](#)

### EMCOMM related videos

See the CERT SET Youtube video link

<https://www.youtube.com/watch?v=66DdgGLIn4c&list=PLROOaUIKdrEgSID1bQJZojW3PzfURoEY-&index=144&t=0s>

Post Camp Fire GMRS organization

[https://www.youtube.com/watch?time\\_continue=220&v=aZiSC4sgKYw&feature=emb\\_logo](https://www.youtube.com/watch?time_continue=220&v=aZiSC4sgKYw&feature=emb_logo)

### ELMERING

An online elmering forum can be accessed by emailing [elmer@karoecho.net](mailto:elmer@karoecho.net) or browsing the associated google group. More in-depth elmering/mentoring is available by request.

In the meanwhile, please check out the plethora of useful information at <https://www.karoecho.net> website.

### Encouragement to Monitor 146.415 and Explore Other Nets

During the current shelter in place, with time spent at home, it is a good opportunity to use your radio and monitor 146.415 (call out for others occasionally and make some casual contacts). There are a lot of other nets around the bay area that you can reach. Expand your radio horizons. See the [KARO ECHO Coordination page](#) for a listing of some other nets to explore. You can just listen at first, or program your radio (if a repeater is used) and try transmitting as a guest check-in to see if you can make contact.

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## KAROECHO.Net Website

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Especially, check out the EVENTS Page ( <https://www.karoecho.net/events> ) and the WORKSTREAMS drop-down menu which will lead one to an extensive training page that provides online learning at your own pace. Everything from the very beginning to advanced EmComm operations is detailed. The RESOURCE page has many excellent outside links.

- ♦ This [new heading on the Events page](#) will be updated with recent additions to the website.
- ♦ If you are on Facebook, contribute to the KARO ECHO Facebook Group Page at <https://www.facebook.com/groups/1451216838315743/>
- ♦ If you haven't already filled out the JOIN form please do. Find it as a drop down menu under "Get Involved" See <https://www.karoecho.net/join>
- ♦ A [follow-through novice primer](#) has been put on the website for new hams once they have bought their radio and want to learn more.
- ♦ A [dual-band antenna primer](#) for new hams who want to graduate from the rubber-ducky world
- ♦ Note that the Tram 1480 gain dual band antenna is currently still available for \$51 (no tax and free shipping) on ebay or from Home Depot. That and an inexpensive speaker tripod is a dynamite combination for portable operation. This antenna is equivalent to the Diamond X-200a antenna which sells at HRO for \$125.00 before taxes and shipping.
- ♦ For newbies, please visit <https://www.karoecho.net/workstreams/training> and read the study materials. It is all there except for hands-on experience. Ask questions!
- ♦ Following the Thursday evening net check-in, there is often a training session and/or discussion.
- ♦ All recent KARO ECHO [Minutes will be found at our Past Events page](#) We are now including past Executive Board Minutes as well. [Newsletters are on the Documents Page](#).

If you desire to be removed from this email list, please email [info@karoecho.net](mailto:info@karoecho.net)

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## Other Resources

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"ALERTWildfire" camera links in our area:

[William Rust Summit cam](#)

[Wildcat Canyon cam](#)

[Vollmer Peak cam](#)

[Nichol Knob cam](#)

[View real-time data from any weather station in the state.](#)

[Albany Radio Groups.io forum](#)

[Eastbay Resilience Groups.io forum](#)

[Marina Bay Neighbors and 1st Wed West county GMRS net](#)

To make it easy for amateurs to evaluate RF exposure, ARRL provides an [RF exposure calculator](#) on its [RF Exposure page](#).



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## KARO ECHO Classifieds

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We are soliciting classified ads from KARO ECHO members, and friends, to facilitate gifting, swapping, selling radio gear and/or offering help/services such as loans of special equipment/tools, etc. Please send any content to the newsletter editor, Howdy [ke6bee@arrl.net](mailto:ke6bee@arrl.net)

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### ARRL license plate frame

\$0.50 for full KARO ECHO members

\$1.00 for others, Proceeds go to KARO ECHO

Contact Don [ni6a@arrl.net](mailto:ni6a@arrl.net)



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**Free Elmer support** for KARO ECHO by Don NI6A. Phone, email and home consultations regarding antennas, SWR, assembly of coax and Anderson power pole connectors, lending of special test equipment, etc. Contact: [elmer@karoecho.net](mailto:elmer@karoecho.net) for "free advice"

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### Loaner radios/antennas/meters available for trial/testing, including:

HTs, larger mobile radios, gear for digital modes and mesh nodes, SWR/power meter

Contact: Howdy [ke6bee@arrl.net](mailto:ke6bee@arrl.net)

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**Available for free:** B&K Precision 2120B oscilloscope - 20MHz bandwidth, dual trace, triggered sweep. Contact: Tom, KN6BUY, at [tfat@sbcglobal.net](mailto:tfat@sbcglobal.net)

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**Chirp Elmering HELP WANTED:** Edward KM6UBY [posted instructions on the Marina Bay Neighbors training website](#) to use CHIRP to load Jay's KJ6WSS WCC memory program of .img or .csv files for a variety of ham radios and the GMRS V1 radio. I hope to find Elmers located throughout WCC to direct the new recruits for help programming their radios. Anyone interested in helping, please contact me directly. Karen KK6ZPM

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Natalie KM6UCF donated the six 2020 issues of the bimonthly ARRL "On the Air" magazine. Includes some good articles on transmission lines, go-kits, propagation, antennas, etc. Also, four books, including the ARRL Operating Manual which is a good reference.

Free to any member, modest donations to KARO-ECHO welcomed. Contact: Don [ni6a@arrl.net](mailto:ni6a@arrl.net)

Some items shown may have been taken.

